$$R \xrightarrow{O} N \xrightarrow{O} R$$

R=H, bis R=CH₃, mbis

$$\begin{array}{c|c} & & & \\ & & \\ & & & \\ & & \\ & & \\ & & & \\ & & \\ & & & \\ & & \\ & & \\ & & & \\ & & \\ & & & \\ & &$$

R=H, 1a R=CH₃, 1b

R=H, 2a R=CH₃, 2b

$$\begin{array}{c|c} R & O & O \\ \hline \\ R & N & N & N \\ \hline \\ R & H & R \end{array}$$

R=H, 3a R=CH₃, 3b

$$\begin{array}{c|c} R \\ O \\ N \\ H \end{array}$$

R=H, 4a R=CH₃, 4b

$$H_2N$$
 $NH[$ NH_2N NH_2

R=H, 5a R=CH₃, 5b

Figure 1

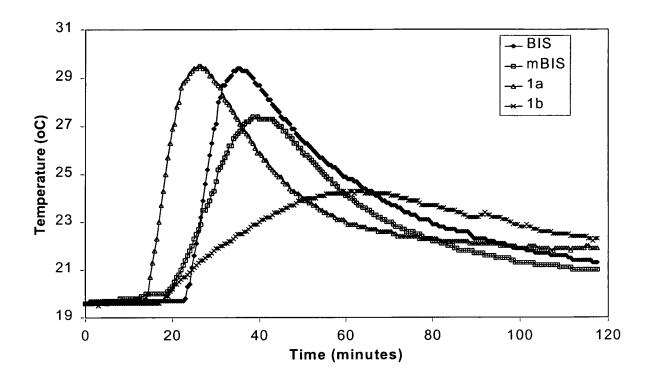


Figure 2

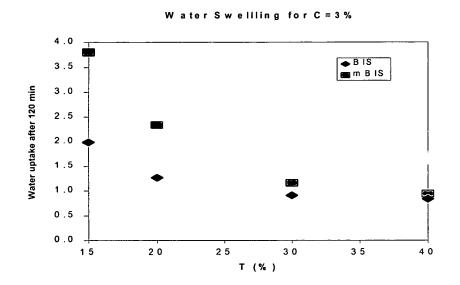


Figure 3

Water swelling for C = 7 %

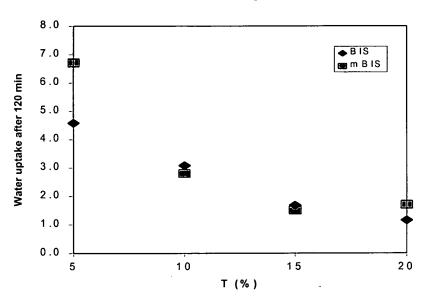


Figure 4

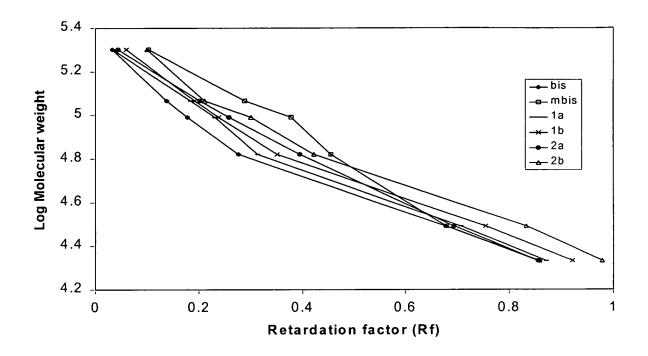


Figure 5a

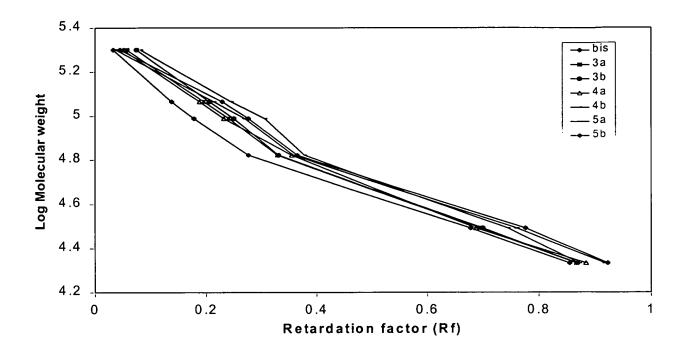


Figure 5b

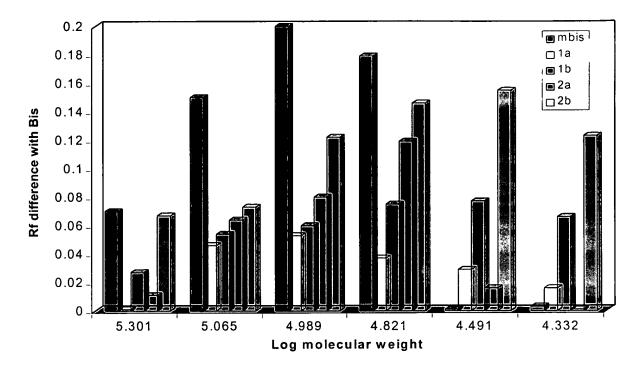


Figure 5c

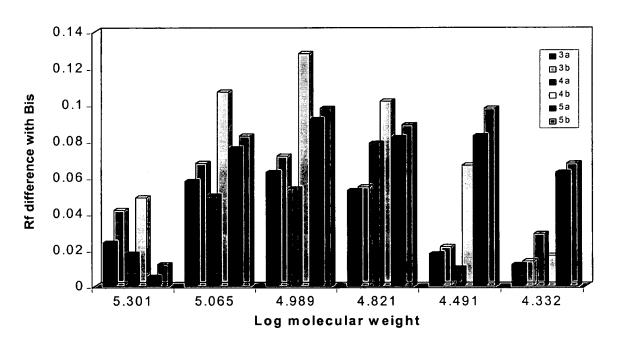


Figure 5d

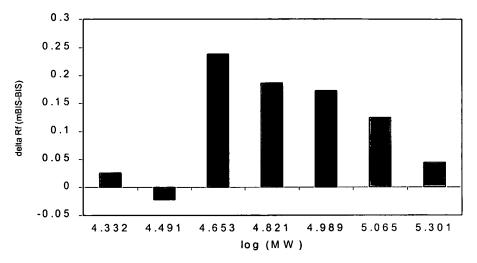


Figure 6

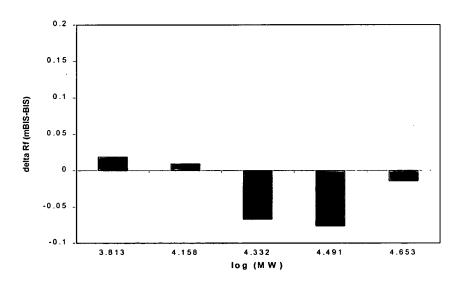
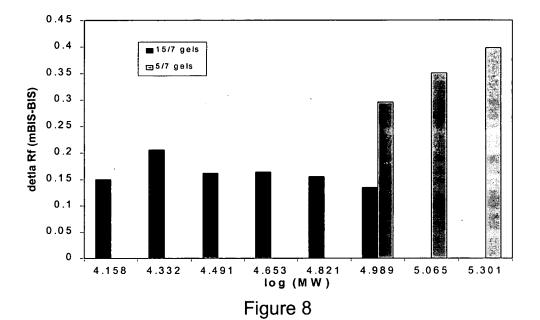


Figure 7



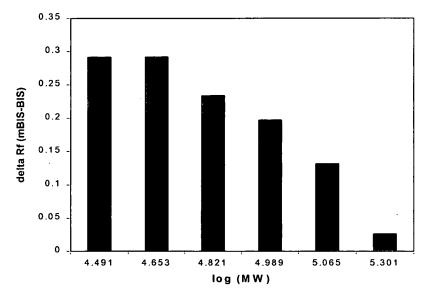


Figure 9

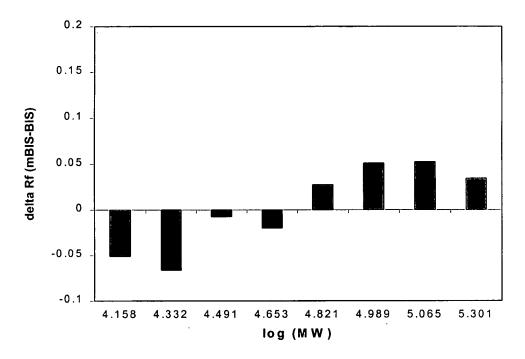
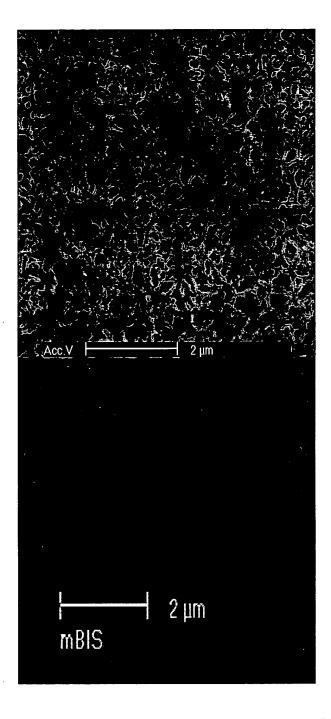
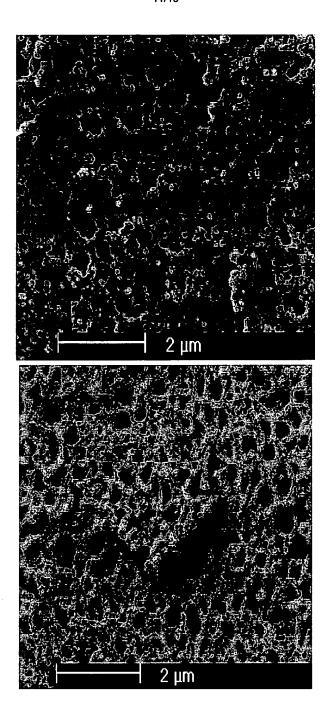


Figure 10



Bis mBis

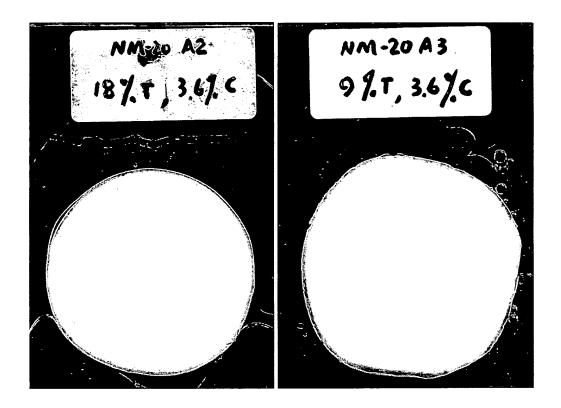
Figure 11a



1a 1b

Figure 11b

HEMA/EGDMA gels



HEA/EGDMA gels

Figure 12a

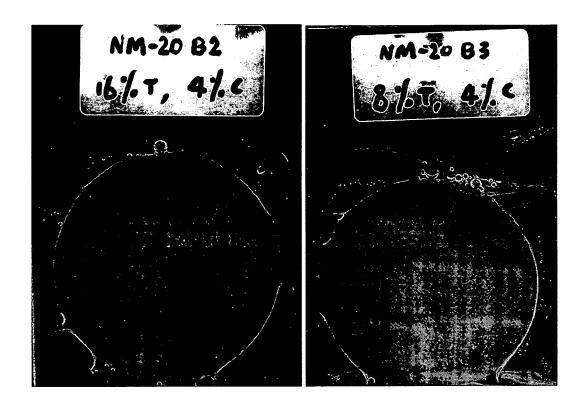


Figure 12b